

Title (en)
TYRE

Title (de)
REIFEN

Title (fr)
PNEUMATIQUE

Publication
EP 3835088 A1 20210616 (EN)

Application
EP 20208876 A 20201120

Priority
JP 2019225753 A 20191213

Abstract (en)
A tyre includes a tread portion having a tread surface being provided with a plurality of lateral grooves extending in a tyre axial direction. In a cross-sectional view perpendicular to a longitudinal direction of the at least one of the plurality of lateral grooves, the at least one of the plurality of lateral grooves includes a pair of groove walls and a groove bottom. At least one of the pair of groove walls includes a serrated portion including first surfaces and second surfaces that are arranged alternately in a groove depth direction to form a serrated surface having a plurality of tip portions between the first surfaces and the second surfaces, and the first surfaces are longer than the second surfaces such that each of the plurality of tip portions has an acute angle.

IPC 8 full level
B60C 11/13 (2006.01); **B60C 11/24** (2006.01)

CPC (source: CN EP US)
B60C 11/03 (2013.01 - CN); **B60C 11/0332** (2013.01 - US); **B60C 11/042** (2013.01 - US); **B60C 11/11** (2013.01 - US);
B60C 11/1307 (2013.01 - CN EP US); **B60C 11/24** (2013.01 - EP); **B60C 2011/0358** (2013.01 - CN); **B60C 2011/0374** (2013.01 - US);
B60C 2011/1213 (2013.01 - US)

Citation (applicant)
JP H1199810 A 19990413 - SUMITOMO RUBBER IND

Citation (search report)
• [XAI] US 2001032691 A1 20011025 - OHSAWA YASUO [JP]
• [XA] EP 3118024 A1 20170118 - MICHELIN & CIE [FR], et al
• [A] JP 2000158915 A 20000613 - SUMITOMO RUBBER IND
• [A] JP 2001063319 A 20010313 - BRIDGESTONE CORP

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3835088 A1 20210616; **EP 3835088 B1 20230329**; CN 112976954 A 20210618; JP 2021094910 A 20210624; JP 7384017 B2 20231121;
US 11691460 B2 20230704; US 2021178830 A1 20210617

DOCDB simple family (application)
EP 20208876 A 20201120; CN 202011394609 A 20201203; JP 2019225753 A 20191213; US 202017103664 A 20201124